Explantion second question:

Biggest strides in decreasing CO2 output

First step:

Here i go find and import the libraries needed for this second code of the assignment.

Second step:

Here we just need only one csv file, because it is a small Dataframe i can drop an unnecesseary column ‘Code’ and rename the column ‘Annual CO2 emissions (per capita).

Third step:

Let’s go make a new Dataframe and rename column ‘Year’ into two new columns 2000 and 2021.

Fourth step:

When the Dataframe is changed, i use .merge() to combine data objects based on one or more keys, simular to what you’d do in a relational database. So i did.

Fifth step:

Here i use the .set\_index() method to set a List, Series or Dataframe, and i did that on column “Entity” if that is inplace = True and that is the case.

Sixth step:

I want to see how much the percentage change is over twenty one years, it’s simple to compare them by using columns ‘2000’ / ‘2021 (times hundred) \* 100. And there you have all the results.

Seventh step:

Let’s go and find the top 10 countries who make the most strides co2 emissions. Here we going to use function .sort\_values() ofcourse we want the percentage change so i use by=[“Change”]. If we run that we see that our dutch proud Curacao is on top and Aruba second, but we see allot of countries is starting to wake up so that’s a positive thing.

Eight step:

Now that we see our top ten, i skip columns “2000” and “2021”. So i use the .drop() function. Now i run the code, and you see that both columns are skipped from the Dataframe.

Nineth step:

Let’s plot!!! I use .plot() function, and we need a title, xlabel and ylabel. Let’s name title first and say title = “co2 strides per capita” because e want to see that. For xlabel we say xlabel= “Entity” and ylabel= “percentage change per capita 2000/2021. Now let’s run that! In this bar plot you see that curacao is clearly the winner in this contest comparing to number three and that is a suprise for a country what is still in a conflict.

Tenth step:

Last step is the barh plot using the same title, xlabel and ylabel. It’s the same plot like the previous one but then from another angle.